

ABSTRACT OF THE DISCLOSURE

Provided is a power generating wind turbine in which parts and components installed in or on a nacelle are made smaller and lighter and maintenance is facilitated. A main shaft 11, a gear-box speeding up rotation of the main shaft 11 and a generator 13 driven by output of the gear-box 11 are provided on a nacelle bed plate 6.

The main shaft 11 is connected to an input shaft 12a end of the gear-box 12 via a double-row tapered roller bearing 16. The main shaft 11 is supported to be fitted to a wall portion W1 of the nacelle bed plate 6 with the double-row tapered roller bearing 16 being interposed therebetween. The main shaft 11 is formed in an annular shape having its outer diameter D1 made larger than its axial directional length L1.